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The following document is being posted by the Naval Explosive Ordnance Disposal Technology Division (NAVEODTECHDIV) in regards to the Joint Laser Ordnance Neutralization System (JLONS) program. The NAVEODTECHDIV welcomes comments from interested parties regarding the content and composition of this document, or its potential approach to the JLONS program. The document is intended to generate feedback on the potential use of this Statement of Objectives as a JLONS program strategy (as opposed to using a Statement of Work); however is NOT part of any current or actual solicitation or RFP for equipment or services for the JLONS. The government is not offering funding for comments or questions generated regarding this document. Please send any comments and/or questions regarding this document to: [Jessica.Maddox@navy.mil](mailto:Jessica.Maddox@navy.mil).

**Draft Statement of Objectives  
for the  
Joint Laser Ordnance Neutralization System (JLONS)**

**1.0 Introduction**

- 1.1 The JLONS is a Joint Explosive Ordnance Disposal (EOD) system for neutralizing Unexploded Ordnance (UXO) and other threat devices. The JLONS shall consist of a laser system capable of being integrated with an RC-50 and a Medium Mine Protected Vehicle (MMPV). The system shall be designed to use a laser to neutralize ordnance and other threat devices in accordance with the mission scenarios, performance parameters and other attributes detailed throughout this document and the JLONS Performance Specification.
- 1.2 This document provides the objectives for the work to be performed during the System Development and Demonstration (SDD) Phase of the JLONS program. Contractor responses to the Statement of Objectives shall be reflected in the Integrated Master Plan (IMP), Integrated Master Schedule (IMS), Contract Data Requirements List (CDRL) and the proposal to be delivered in response to the SDD solicitation.
- 1.3 The goal of the JLONS program is to design and produce a system by integrating Commercial Off-the-Shelf (COTS) items and Non-Developmental Items (NDI) to the maximum extent possible to create a laser neutralization system operable by trained EOD technicians that is effective, safe, supportable, reliable, and maintainable as well as cost effective. Through the use of Engineering Development Models (EDMs) and Production Representative Models (PRMs), the contractor will design and thoroughly test the system to meet the objectives and requirements of the JLONS program.

**2.0 Program Objectives**

- 2.1 Study, design, develop, demonstrate, document, test, produce, maintain and support a JLONS system that meets or exceeds the requirements described in the Performance Specification and associated documents and the objectives described below.

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2.2 Program Management - The government expects the prime contractor to achieve the following program management objectives during the JLONS Program:

- 2.2.1 Establish and maintain management operations that shall include program planning and control, subcontractor control, financial management, data management, management and accountability for Government Furnished Equipment, Material or Information, and risk management. Also, include a program management office function to manage all technical performance, including reliability, maintainability, Integrated Logistics Support (ILS), cost, schedule, and data delivery requirements of the contract.
- 2.2.2 Develop and implement a Management Program that clearly defines how the JLONS Program shall be planned, organized, managed and controlled including project definition and risk reduction, with sufficient detail to cover contractor and subcontractor responsibilities. This program should include, but not be limited to prime contractor and subcontractor participation in JLONS Program Integrated Product Teams (PIPTs) and JLONS Working Groups as the need arises.
- 2.2.3 Develop, maintain and follow an overall program schedule that follows the guidance given in Department of Defense Instruction 5000.2 for acquisition phases and milestones, tailored for the program to reduce risk, cost and schedule.
- 2.2.4 Promote regular communication with the Government through reviews to provide analysis and alternate solutions to satisfy cost and performance requirements. These reviews should include but not be limited to: Systems Requirements Review (SRR), Preliminary Design Review (PDR), Critical Design Review (CDR), technical reviews (systems engineering, software, logistics, safety, etc.), quarterly reviews, and PIPT reviews.
- 2.2.5 Establish, maintain and control a Cost Schedule Status Reporting (CSSR) Program using an approved Government cost reporting system, designed to provide necessary management knowledge for planning and control of costs and schedule with regards to performance, existing or potential problems, and actions to resolve the problems.
- 2.2.6 Establish, maintain, control, distribute and deliver data using electronic documentation, data banks, and electronic transfer technology to the greatest extent possible.

2.3 Systems Engineering-The government expects the prime contractor to achieve the following systems engineering objectives during the JLONS Program:

- 2.3.1 Utilize disciplined systems engineering and management processes to meet the performance requirements of the JLONS Performance Specification, in accordance with a Systems Engineering Management Plan (SEMP) prepared in accordance with MIL-STD

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- 499B or identified equivalent. The processes should establish a balance between performance, risk, cost and schedule.
- 2.3.2 Provide systems engineering support to include system equipment development and interface integration, system level joint test activities, system certifications, technical reviews, PIPT meetings and major meeting events support.
  - 2.3.3 Develop and implement a Human Engineering Program to ensure that appropriate human engineering criteria are applied to the JLONS design.
  - 2.3.4 Implement a comprehensive configuration management system and functions to identify, control, audit, and account for configured items as well as track problems identified during design, development, integration and testing.
- 2.4 Software Development-The government expects the prime contractor to achieve the following software development objectives during the JLONS Program:
- 2.4.1 Develop any software in accordance with MIL-STD-498, applicable to the definition, design, generation, documentation, and testing of all software and firmware items developed and/or upgraded for the JLONS program.
- 2.5 Parts Management-The government expects the prime contractor to achieve the following parts management objectives during the JLONS Program:
- 2.5.1 Select parts and conduct a parts management program that assures the JLONS meets the Performance Specification requirements with the lowest life cycle cost, using MIL-HDBK-965 for guidance.
- 2.6 Safety Engineering-The government expects the prime contractor to achieve the following safety engineering objectives during the JLONS Program:
- 2.6.1 Establish and maintain a JLONS system safety program that provides input and mitigations for the safety program hazard analyses and ensures overall system safety requirements are met for all JLONS components with emphasis on personnel safety, using MIL-STD-882D and MIL-STD-1425A for guidance.
- 2.7 Test and Evaluation (T&E)- The government expects the prime contractor to achieve the following test and evaluation objectives during the JLONS Program:
- 2.7.1 Implement a T&E program by developing and maintaining a Test and Evaluation Master Plan (TEMP) to document the T&E program and demonstrate compliance with all requirements of the Performance Specification. The TEMP should address (but is not limited to) all test activities for all JLONS components, entrance and exit criteria for all tests, government participation, approach for using government furnished assets and facilities, schedule, and documentation and reporting of test results.
- 2.8 Reliability Engineering-The government expects the prime contractor to achieve the following reliability engineering objectives during the JLONS Program:

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- 2.8.1 Implement and maintain a reliability program including a program plan that describes procedures and methods used to ensure that specified reliability requirements are met, using MIL-STD-725 as guidance.
- 2.8.2 Provide reliability data and predictions through comprehensive Failure Summary Analysis Reports and Reliability Models and Block Diagrams to provide basic/mission reliability predictions for equipment and software to the Government. MIL-HDBK-217 may be used as guidance in preparing predictions.
- 2.8.3 Reliability, availability and maintainability analysis of all newly developed, new acquisition (including COTS/NDI) and modified equipment and lower level Lowest Replaceable Units (LRUs).
- 2.9 Integrated Logistics Support (ILS)-The government expects the prime contractor to achieve the following ILS objectives during the JLONS Program:
  - 2.9.1 Establish and maintain an ILS program for the JLONS program. The objective of this ILS program is to ensure that all hardware and software products, including all NDI, modified NDI, and newly developed items delivered are fully supported throughout their life cycle.
    - 2.9.1.1 Support ILS reviews at the ILS PIPT meetings.
    - 2.9.1.2 Develop and maintain an ILS Master Schedule and an Integrated Logistics Support Plan (ILSP).
  - 2.9.2 Implement a tailored Supportability Analysis (SA) process for JLONS using MIL-PRF-49506 and MIL-HDBK-502 as guidance. Included in the Supportability Analysis, address the following:
    - 2.9.2.1 Level of Repair Analysis on all newly developed, new acquisition (including COTS/NDI) and modified equipment and lower level LRUs, using NAVSEA TL081-AB-PRO-010/LORA and MIL-STD-1390D for guidance.
    - 2.9.2.2 Emphasis on Built-in-Test capability and automated diagnostics to identify and localize problems and to eliminate (to the greatest extent possible) special purpose support and test equipment. Use TOOLS OSSC-0001 and NAVSEA-ST000-AA-IDX-010-PEETE for guidance.
  - 2.9.3 Use information from the SA process to develop and maintain Provisioning Technical Documentation (PTD) for the JLONS, sub-systems, LRUs, installation materials, and support and test equipment.
  - 2.9.4 Establish a Packaging, Handling Storage and Transportation (PHS&T) program that utilizes existing PHS&T programs to the maximum extent possible and prevents damage to the material and physical harm to the personnel.
  - 2.9.5 Develop and maintain JLONS operations and troubleshooting technical information for use by the Naval EOD Technology Division (NAVEODTECHDIV) to update the EOD organizational level curricula.

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- 2.9.6 Develop and maintain initial JLONS training materials using best commercial practices and conduct one training course using production representative hardware, software and logistics products.
- 2.9.7 Establish and document a Technical Manual (TM) program to plan and manage the development, validation, verification, delivery and update all technical information needed to effectively operate and maintain the JLONS and associated test equipment hardware and software throughout its life cycle.